# Signaling Prefix Origin Validation Results from an RPKI Origin Validating BGP Speaker to BGP Peers 

draft-ietf-sidrops-validating-bgp-speaker
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## Main idea

- In the domain of an IXP network, forward ROA validation results from a route server to its peers


## Why?

- Lightweight method for peers to make use of RPKI for
- using the validation results of the IXPs route server
- monitoring, maintenance, troubleshooting
- educational and research purposes


## Signaling at an IXP



## Current Implementation

Introduce a transitive four-octet AS Specific Extended Community, which signals:

1. ROA validity status of a prefix (Local Administrator field)
2. Signaling ASN (Global Administrator field)


## Modes of operation

Allow for 3 modes of operation for validating BGP speaker:

1. Tag prefixes with their ROA validity status, and advertise them.
2. Drop prefixes with ROA status "Invalid" Tag the remaining "Unknown" and "Valid" routes, and advertise them.
3. Drop prefixes with ROA status "Invalid" and "Unknown"

Tag the remaining "Valid" routes, and advertise them.

## Rough Timeline



## ...Meanwhile

- Discussions on the mailing list, suggestions have been included
- RPKI adoption continues, e.g. dropping RPKI invalids at IXP route servers
- Demand for tagging of RPKI validation states with BGP communities persist


## Continuing...

- With people asking for this draft, we would like to finalize/finish the draft
- Any input / idea / discussion is welcome

